

Tilt Repeater Plus User Guide



- 868Mhz Two-Way wireless communication with built-in range extender
- Tilt and shock sensor with 8 adjustable sensitivity settings
- 1km line of sight wireless range between devices
- IP65 enclosure with wall and pole mount options
- Powered by 2 x CR123 batteries with 6 Years battery life

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1 Pairing the device with your system

1.1 Pairing the Tilt Repeater Plus with the KwêHub

- 1) Make sure the KwêHub is registered on the App. If not, follow the KwêHub manual for details.
- 2) Tilt or shake the repeater and place it next to the HUB (must be placed within 1 meter from the Hub).
- 3) Navigate to “Devices” and press the “+” button. Enter a name and zone number for the Link module and press confirm.
 - **NOTE:** The “Confirm” button must be pressed within 30 seconds after the device was placed next to the HUB.
- 4) Pick up the device and tilt it.
 - **NOTE:** The device must be tilted within 10 seconds after the “confirm” button was pressed.
- 5) The Link module will now appear as a new device in the App.
- 6) If the device does not show in the device list, repeat the procedure from step 2.



Zone numbers can be the same for different sensors (more than one sensor can have the same zone number). When an alarm is triggered, the buzzer in the KwêHub will sound a unique sequence for each zone.

2 Installing the device



The device offers flexible installation methods to suit different environments. Mount the Tilt Repeater using the fastener screws that are included in the package. Alternatively, use two cable ties to attach the device firmly to a pole.

It is strongly recommended to avoid mounting the device against metal objects. Doing so can significantly reduce the wireless communication range. Always select a mounting surface that does not interfere with wireless signals to ensure optimal operation.

3 Repeater functionality

Repeater functionality is automatically enabled after successful pairing. The device will increase the communication range between the Sensors and the base unit. It is recommended to mount the device as high as possible against non-metal objects. Up to 1km line of sight between devices can be achieved if correctly installed.

Multi-Hop, also known as daisy chain repeating, enables the extension of signal coverage by allowing one repeater to relay the signal to another. This sequential connection continues until the signal reaches the HUB, facilitating reliable communication across greater distances or challenging environments.

4 Tilt / Shock Sensor

The device can be used for Shock & Tilt detection. This is useful when mounted to equipment that needs to be protected against vandalism & theft.

Typical applications are to monitor theft and vandalism on gate motors, solar panels, borehole pumps and other fixed assets. Opening and closing of garage doors can be monitored when the sensor is mounted on the inside of the garage door.

The device has 8 sensitivity settings and two event type notifications that can be configured under the settings tab in the App. In the settings menu, select “Trouble on Tilt” for 24 Hour monitoring, OR “Alarm on Tilt” to receive notifications only when the system is armed.

4.1 Detection sequence

When a sensor detects movement or sudden impact, the user will be alerted, then the sensor will enter a 10 second ‘no-detect’ delay. Detections during this period will be ignored. After the 10 second delay, the sensor is ready for the next detection. After 3 valid detections within 10 seconds apart, the sensor will enter a 30 second ‘no-detect’ delay. The sensor will remain in this ‘no-detect’ mode until there is NO movement for 30 seconds. Any movement within this period will reset the 30 second delay. After the 30 second delay, the detection sequence restarts.

5 Battery life

The device operates using two CR123 lithium batteries as its power source. These batteries last up to 6 years under normal use.

The device will send a low battery notification when the batteries require replacement.